

## Term Contract No. 070R

STATE OF NORTH CAROLINA, DEPARTMENT OF ADMINISTRATION		
DIVISION OF PURCHASE AND CONTRACT		
116 West Jones Street, Raleigh, NC 27603-8002		
<b>Term Contract</b>	<b>070R</b>	<b>Dump Trucks-50,000-84,000 GVSWR-Cab and Chassis Only</b>
<b>Effective Dates</b>	March 5, 2010 through March 4, 2013	
<b>Bid Number</b>	201000126	
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<b>Last Updated</b>	April 9, 2012	

### 1. General Information

**SCOPE:** The scope of this contract is intended to cover the State's normal requirements for dump trucks as specified herein for use by all State Agencies, Institutions, and all Public Schools except those exempt by Statute noted herein. As per House Bill 490, Community Colleges have the flexibility to not use this contract if they can locate the item(s) that is the same or substantially similar in quality, service, and performance as items available under State term contracts and the delivered price is less than that on term contract with all features, terms, and conditions being the same.

#### NON-STATE AGENCIES ELIGIBLE TO PARTICIPATE IN THIS CONTRACT

In accordance with North Carolina General Statutes, certain non-state entities described below, may participate in this contract on a voluntary basis. Any of the non-state entities that choose to participate in this contract must abide by the terms and conditions that are set forth in this contract.

Nonprofit corporations operating charitable hospitals, local nonprofit community sheltered workshops or centers that meet standards established by the Division of Vocational Rehabilitation of the Department of Health and Human Services, private nonprofit agencies licensed or approved by the Department of Health and Human Services as child placing agencies, residential child-care facilities, private nonprofit rural, community, and migrant health centers designated by the Office of Rural Health and Resource Development, private higher education institutions, counties, public school units, cities, towns, governmental entities, volunteer fire departments, rescue squads, and other subdivisions of the State and public agencies thereof.

### 2. Scope of Contract

This specification is for the purchase of a straight truck, tandem axle cab and chassis that will typically be used by NCDOT and other authorized users of this contract (Non-NCDOT) in dump truck operation in a variety of construction and maintenance operations including snow removal. The unit offered shall be new, unused and a current model under standard production by the manufacturer.

### 3. Taxes

Prices or Discounts shown herein do not include any North Carolina sales or use taxes.

### 4. Abnormal Quantities

Any agency requirement (except DOT) that exceeds 5 units must be forwarded to the Division of Purchase and Contract for processing. The Division, at its sole discretion, may process any such requirement in one of the following ways:

1. Purchase may be authorized at the current level of pricing with the current contract vendor(s)
2. Additional discounts from the current level of pricing may be negotiated with the current contract vendor(s)
3. A separate Invitation for Bids may be issued for the requirement

## 5. Minimum Orders

This contract will be for a minimum order of one unit for any single order.

## 6. Placement of Orders

Orders will be placed throughout the contract period on an as-needed basis for the quantity required at the time, and will be issued directly to the respective contractor(s) or their designated suppliers. Contract changes, if any, over the life of the contract are implemented by contract addenda released by the Contract Administrator to the contractor. If the contractor is accepting orders and/or delivering through other parties, for example a manufacturer accepting orders and delivering through a dealer network or dealers receiving orders through a network of other dealers, then it is the responsibility of the contractor to apprise such parties of all such contract addenda.

## . Delivery

Delivery is 60-90 days. .

In the event the delivery is not received within the contract delivery period, the contractor may be held in default in accordance with paragraph 1, DEFAULT AND PERFORMANCE BOND in the North Carolina General Contract Terms and Conditions, and the state may procure the articles or services from other sources and hold the contractor responsible for excess cost occasioned thereby.

## 8. Transportation Charges

All goods shall be delivered FOB DESTINATION when the "order value" is one unit or more, when shipped to a single destination. Transportation charges invoiced for orders equal to or more than this "order value" may be cause for removal of the contractor from the contract.

NOTE: If the contractor makes partial shipments of an order equal to or more than this "order value" to one destination, all shipments of the order shall be sent FOB DESTINATION with NO additional transportation charges added.

Note! All shipments should be inspected for damage immediately upon receipt.

## 9. Pricing information

### Placement of Orders

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### Order Placement Via E-Procurement (Catalog Items)

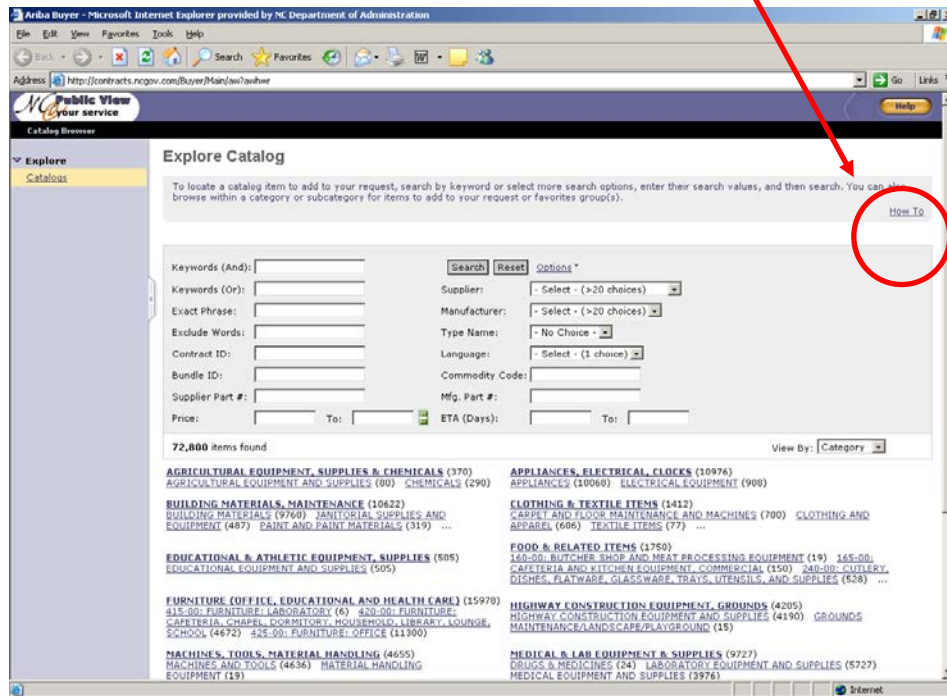
- a. Click on the following link: [E-Procurement Users](#)
- b. When placing an order in the e-procurement system, the very first thing to do is to go to the catalog tab and select options. After you have selected options, select contract ID. In the contract ID space type in the contract ID number, 070R.
- c. Please make sure the keywords space is blank and the contract ID is typed in the contract ID section.
- d. After selecting the contract ID and to narrow the search to a particular manufacturer select the manufacturer from the drop down
- e. When the item to be ordered has been located complete the requisition and issue the purchase order.

### Non E-Procurement Users:

**The E-Procurement Public View will be the only place for Non E-Procurement Users to view the**

item/pricing information.

- Click on the following link: [E-Procurement Public View](#)
- For online assistance regarding item searching; click on the “How to” underlined link located near the upper-right hand corner.



## 10. Price Lists and Catalogs

The successful contractor must furnish descriptive literature to any agency within seven (7) consecutive days after request of the agency. Failure to comply with these requirements may subject the contractor to removal from the contract.

## 11. Contractors

All known minority, women and disabled owned businesses, as well as disabled business enterprises and nonprofit work centers for the blind and severely disabled, including dealers, will be identified with "Minority owned" "Woman owned", "Disabled Owned", "DBE" or "BSD" as appropriate after the vendor number. This is being done in an effort to recognize these businesses and to encourage and promote their use to the greatest extent permitted by law.

When more than one supplier is listed for a particular item, selection should be made, whenever possible, from any of the groups identified above, consistent with agency needs and price considerations.

Contractor Name	Address / Federal ID	Contact, Phone, Email
Transource Inc.	8808 Midway West.Rd. Raleigh, NC 27617-Call vendor for Federal ID number	Rob Shaw-800-849-6225 <a href="mailto:Rob.shaw@tsource.com">Rob.shaw@tsource.com</a>
SERVICE LOCATIONS	Rocky Mount NC	252.442.1175
	Greensboro NC	336.996.6060
	Newton NC	

## 12. Warranty

Bidder warrants that equipment furnished on this bid will be new and of good material and workmanship. Defective parts found to be free of negligence or accident will be replaced free of charge for 12 months from respective dates the machines are put in operations. Such replacement is to include all parts, labor, freight, and travel to site where equipment is down (statewide locations). In addition, any specific provisions in the manufacturer's standard warranty that exceed the above requirement become part of the warranty for this contract.

## 13. Substitutions

After the award of the contract, substitutions are not permitted without prior approval of the Division of Purchase and Contract. Failure of the contractor to comply with this requirement may result in the removal of the contractor from the contract.

## 14 Additional Information

**TRAINING:** Training is required and the successful vendor shall provide a qualified representative to instruct the owners operators in the proper operation, routine maintenance, safety and service at time of delivery. .

CONTINUED

**GENERAL SPECIFICATIONS-NOTE-ORDERING AGENCIES ARE STRONGLY ENCOURAGED TO CONFIRM SPECIFICATIONS AND DELIVERY DATES WITH THE VENDOR PRIOR TO ORDER TRUCK**

**TANDEM AXLE, TRUCK CHASSIS**

**GENERAL** Non-NCDOT users will typically use these units in a variety of construction and maintenance operations including snow removal. The vendor is reminded that the dimensions given below are minimums except where otherwise stated. The warranty shall also include coverage of these units while in typical snow removal operation.

**REQUESTED**

**OFFERED**

**GVWR:**

- a.** Shall be a minimum of 58,000 lbs.
- b.** Chassis weight on front axle. 9540 lbs
- c.** Chassis weight on rear tandem. 8641lbs
- d.** Weight of cab & chassis including lubricant and full load of fuel. 19015lbs

**Axle Spacing:**

- a.** Center of front axle to center of rearmost axle of tandem, shall be 20 feet to meet NC Bridge Formula definitions.

**Usable CT:** Defined as clear usable space outside of chassis rails from behind cab, DPF or exhaust, whichever extends the furthest towards the rear, to the front of the tire tread of the forward rear axle. Under-slung air tanks or other components are not to protrude outside of the chassis rails in the defined area.

- a.** Usable CT requested to be 126'''.

**Wheelbase:**

- a.** Wheelbase shall be 21'

**Frame:**

- a.** resisting bending moment of 3,580,0000 inch/lbs. per frame rail.
- b.** 29.8 section modulus.
- c.** 120,000 PSI rated
- d.** Full height frame, approximately 10 inches in height, is to protrude beyond grill/radiator and be of sufficient strength for plowing operations.
- e.** Front frame extensions are not necessary so long as the frame protrudes beyond the grill/radiator as described in "d" above. If extensions are supplied they must be integral and not be bolted/added on.
- f.** Spring hanger assemblies shall not to interfere with attaching the bumper push plates to inside of truck frame rails. The first 6 inches (approximately), of the inside web and flanges of the chassis rails are to be clear to allow attachment of the bumper push plates to the inside of the chassis rails.
- g.** blank

**Springs and Suspension:**

Front and rear suspension shall meet or exceed the requirements for GVWR.

Rear suspension to be a Hendrickson RTE 2-400 with bronze center bushings, Mack SB-40,.

**Front Axle:**

- a. Front axle shall be 18,000 lbs. rated capacity.
- b. Set forward axle with shock absorbers.
- c. Wheel bearings oil bath type with synthetic lubricant.

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. Rear axles: Eaton DS402P, Meritor RT-40-145P, Mack SS-40 with automatic power divider acceptable as long as axles meet the following:

or approved equal is

- a. Rear tandem shall be 40,000 lbs. rated capacity.
  - b. Heavy duty rear axle housing with iron rear axle carrier.
  - c. Single speed tandem (single gear ratio).
  - d. Spacing from center to center of the axles of the tandem to be 55 inches.
  - e. Spacing of the axles of the tandem shall provide enough clearance to allow for snow chains to be run on both axles with the tires specified in this bid.
  - f. Axle ratio provided is to be properly matched for engine RPM, tire size and transmission offered to maintain 65 MPH  $\pm$  2 MPH at a maximum GVW on level ground.
- G Axle Ratio-3.98- Differentials filled with synthetic lubricant.

Lift Axle(s): When required under "Furnish and Deliver", the cab and chassis shall be equipped with additional lift axle(s) that shall meet the following:

- a. Shall be installed by chassis manufacturer.
- b. 11R 22.5 x 8.5 hub piloted steel disk.
- c. Steerable.
- d. Air activated from cab.
- e. Automatic lift in reverse.
- f. Rated for up to 13,200 lbs.

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Chassis with (1) lift axle: Usable CT requirement does not apply.

- a. GVWR shall be 73,350 lbs.
- b. Chassis weight on front axle 10,962 lbs.
- c. Chassis weight on rear tandem 9,727 lbs
- d. Weight of cab & chassis including lubricant and full load of fuel 20,689lbs
- e. Axle spacing from center of chassis front axle to center of rearmost axle of tandem, shall be 23 feet to meet NC Bridge formula definitions.
- f. Spacing from center line of lift axle to center line of rear axle of the tandem to be 98 inches.

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. Chassis with (2) lift axles: Usable CT requirement does not apply.

- A Chassis weight on front axle 12,384 lbs.
- B Chassis weight on rear tandem 42,560 lbs.
- C Weight of cab & chassis including lubricant and full load of fuel 20,172 lbs
- D Axle spacing from center of chassis front axle to center of rearmost axle of tandem, shall be 25 feet to meet NC Bridge formula definitions.
- E Spacing from center line of lift axle to center line of rear axle of the tandem to be 146 inches.

**F GVWR 70,000 lbs**

**Brakes:**

- a. Full air "S" Cam.
- b. Low air warning buzzer and light.
- c. Non asbestos shoes.
- d. Desiccant type air dryer, Midland Pure Air Plus or pre-equal. approved
- e. Automatic slack adjusters.
- f. 18.7 CFM compressor.
- g. Parking brake on front and rear axle of tandem.
- h. Dust shields on all axles.
- i. Brakes shall conform to FMVSS in effect at time of production.
- j. 16 ½ inches x 6 inches front.
- k. 16 ½ inches x 7 inches rear.
- l. Outboard mounted drums on both axles.
- m. Full trailer air package required with glad hands installed at end of chassis rails.
- n. Rear brake chambers shall not to extend past radius of rear tires.
- o. The brake air tank shall have a manual drain valve with a lanyard attached to the outside of chassis rail.
- p. ABS system Bendix

**Batteries:**

- a. Battery box and battery mounts designed for on/off road applications.

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- b. Minimum of 1900 CCA at zero (0) degrees F.
- c. Hold down clamps and terminals treated with corrosion resistant substance.
- d. Batteries and cables to comply with TMC105.
- e. 2 remote jump start terminals, battery side mounted with color coded covers.
- f. Shall have a master lever type electrical disconnect switch (non-keyed) on battery side of truck, protected from road splash and accessible from the ground.
- g. Manufacturer's standard battery box cover.

**Alternator:**

- . Alternator manufacturer Delco
- . Alternator model 145 Amp 24Si

Engine Performance: The following performance is requested when fully loaded as determined by SAE J688. Rated horsepower and torque shall be sufficient so that when coupled with the proposed transmission and rear axles, the unit will meet the performance criteria listed below:

- a. Full diesel, electronic engines, (6) cylinders., 11 L, 395 Net HP @ 1500-1700 RPM,
- b. Shall be SAE J1349 rated.
- c. Minimum rated torque 1550-lbs/ft.
- d. Shall have 20% startability at maximum GVWR to start and climb 20% grade (startability @ clutch engagement)
- e. Shall have a minimum 2% gradeability at maximum GVWR at 55 MPH.
- f. Shall maintain a minimum top speed of 65 MPH ( $\pm 2$  MPH) at maximum GVW on level ground.
- g. Bidder shall include truck performance analysis sheet(s) indicating the truck performance criteria as described above

**Engine Requirements Continued:**

- a. Engine offered shall be certified for the EPA's 2010 emission compliance requirements.
- b. 110 V thermostatically controlled engine block heater properly sized for the engine proposed with weatherproof receptacle mounted under left door (Driver side).
- c. Shall have cold weather starting aid, compatible with the engine furnished.
- d. Shall have engine air intake arranged to eliminate the induction of blowing snow during snow removal operations.
- e. Shall have thermostatically controlled fuel heater.
- f. Shall have on board primer for the fuel system.
- g. Shall have all provisions for front engine crankshaft driven hydraulic PTO system.
- h. Bidder shall provide and install the plate adapter to harmonic balancer for the front mounted pump applications.
- i. Shall be compatible for use with B-20 Bio-Diesel fuel.
- j. Shall have a fuel water separator.
- k. Shall have full flow, spin on type engine oil filter.
- l. Engine parameters set to allow infinite engine idle time.

**Engine Brake:**

- a. Shall be a compression type or approved equal, compatible with the engine and transmission furnished.

**Exhaust:**

- a. Shall be a vertical stack with horizontal muffler not to extend above cab roof and not to interfere with dump body installation. A turnout exhaust stack is required (rain cap not acceptable).

**Fuel Tank:**

- a. Single fuel tank, 88 gallons.
- b. Fuel tank to be aluminum, ☐ luminized-steel not acceptable.
- c. Shall conform to all applicable SAE Standards.
- d. left side mounted.

**Air Cleaner:**

- a. Dry type, with rated air flow for engine offered with filtration efficiency of 99.5% for all engine speeds.
- b. In cab direct reading air restriction indicator.

**Cooling System:**

- a. Cooling system conforming to SAE J1393, ASTM Standards and manufacturer recommendations for on-off road application.
- b. Shall have manufacturer's suggested coolant type.

**Gauges:** Shall include manufacturer's standard gauge package, including the following gauges as a minimum:

- a. Dial type oil pressure.
- b. Dial type temperature.
- c. Dial type voltmeter.
- d. Dial type fuel.
- e. Dial type air pressure.
- f. Dial type tachometer.
- g. Hour meter.
- h. Audible and visual alarm for high water temperature.
- i. Audible and visual alarm for low oil pressure.

**Manual Transmission**

- a. Ten (10) speed wide ratio.
- b. torque capacity of 1500 lbs/ft.
- c. Fuller FRO-15210C, properly matching engine and axle ratio.
- d. Fully synchronized to allow easy downshifting to lower gears without bringing vehicle to stop.
- e. Furnished with synthetic transmission lubricant. Eaton/Fuller



**Clutch:**

- a. Minimum 15 ½ inches.
- b. Minimum 2 plate.

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- c. An extended lube line for the clutch release bearing is required.
- d.
- e.

. Automatic Transmission: (when required under "Furnish and Deliver")

- a. Fully automatic, six (6) speed/Allison 1650 torque capacity.
- b. Allison World Transmission 4500 RDS for on/off road.
- c. Transmission control shall be push pad, dash mounted shifter.
- d. Oil level sensor.
- e. Transmission shall be equipped with auto-neutral feature to be activated when parking brake is applied to command the transmission to neutral, regardless of range selection.
- f. Furnished with synthetic transmission lubricant.



**Windshield Wipers:**

- a. Electric, dual wipers.
- b. Intermittent action.
- c. Dual washers.

**Wheel Rims:**

- a. Steel disc type wheels, 10 hole.
- b. Hub piloted.
- c. Front rims 9.00 inches wide.
- d. Rear rims 8.25 inches wide.
- e. Rims shall conform to Tire & Rim Association guidelines.
- f. Rims shall be Manufacturer's standard White.

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**Front Tires:**

- a. 315/80R22.5 steel belted radial.
- b. Load Range I (20 Ply)
- c. Premium highway treads.
- d. Bridgestone.

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**. Rear Tires:**

- a. 11R22.5 steel belted radial.
- b. Load range H (16 PLY).
- c. Bridgestone.

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**Lighting:**

- a. Factory installed daytime running lights.
- b. The standard headlight switch shall operate all lights in the normal mode at full voltage.
- c. Front and rear Class "A" directional signals.

- d. Minimum, five cab marker lights.
- e. Hazard flashers.
- f. All lighting to be of the type approved by the N.C. Division of Motor Vehicles.
- g. All bulbs shall be shock mounted.

**Front Bumper:**

- a. Delete front bumper.

**Electrical Wiring:**

- a. All wiring from the front to rear of chassis shall be encased in a loom, molded plastic or pre-approved equal protective covering.
- b. Wiring to be attached to inner side rails with rubber covered fasteners at approximately 20" intervals.
- c. Wiring, including a weatherproof connector shall be provided at the hood-hinge area for connection of snow plow lights.
- d. The connector shall include parking light and turn signal functions.
- e. A body builder harness, including a weather proof connector shall be provided at the back of the cab.

Auxiliary Power Switches: Shall have six (6) factory installed, dash mounted auxiliary power switches with wiring provided to the back of the cab for the following functions:

- a. Snowplow light selector switch to allow independent selection of the chassis headlights or the snow plow lights.
- b. Emergency light switch, illuminated, on/off type, battery source, 20 AMP minimum.
- c. Spreader light switch, illuminated, on/off type, ignition source, 20 AMP minimum.
- d. Two (2) Illuminated, on/off type, ignition source, 20 AMP minimum for future use.
- e. One (1) Illuminated, on/off type, battery source, 20 AMP minimum for future use.

**Cab:**

- a. Shall have factory installed air-conditioning.
- b. Shall have electronic cruise control.
- c. Shall have air ride cab.
- d. Shall have exterior and interior grab handle handholds.

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- e. Shall have steps for high cab applications for both driver and passenger side.
- f. Shall have tinted safety glass throughout including windshield.
- g. Driver and passenger seats shall be air ride and adjustable up, down, forward, back and tilt. (National Cush-n-Aire or pre-approved equal).
- h. Both seats shall be high-back, each with lap and shoulder seatbelts.
- i. Shall have 12V power supply outlet.
- j. Shall have fresh air heater and defroster with single shut-off valve for water line to heater.
- k. Shall have door locks, right and left padded sun visor, drivers side arm rest, map pocket and floor mat.
- l. Shall have AM/FM radio, shielded to eliminate interference from 2-way radio.
- m. Shall have a fixed grill with radiator rock guard and tilt hood.
- n. Tilt and telescoping steering wheel.
- o. Electronic speedometer with auxiliary in-cab tap point to interface with current electronic spreader controls with pulse width modulated signal.
- p. Cab access and function must be ergonomically designed to accommodate 95% percentile of drivers ranging from a 4 Ft. 8 In., 110 Lb. driver to a 6 Ft. 5 In., 375 Lb. driver.

**Mirrors:**

- a. Left and right west coast type with approximately 7"x17" heads.
- b. Both west coast mirrors heated.
- c. Left side to have two (2) 8" diameter convex mirrors, one each mounted on upper and lower arms of mirror bracket.
- d. Right side mirror to be motorized.
- e. Right side mirror to have one (1) 8" diameter convex mirror mounted on lower mirror arm.
- f. All three (3) convex mirrors shall be ball adjustable.
- g. Right side, adjustable fender mounted mirror.

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### Horn(s):

- a. Dual, electric and air horn per SAE Standard.

### Power Steering:

- a. Power steering, designed and intended for the tires, axles and GVWR offered.

### Safety:

- a. Vehicles shall include the necessary safety features to meet the following applicable requirements of the Federal Motor Vehicles Safety Standards and shall conform with Motor Carrier Safety Regulations #399.203.
- b. The vehicle to be furnished with all applicable equipment and accessories as required by the Occupational Safety and Health Act of both the United States and the State of North Carolina, and shall comply with all regulations, rules, standards and interpretations lawfully adopted there under.
- c. Vehicle cab noise at ear level of the seated operator, with windows open shall not exceed OSHA requirements in 29 CFR 1910.95 for 8-hour operating exposure when measured on the "A" scale of a standard sound meter. Ear plugs or other personal protective devices are not acceptable to comply with this requirement.
- d. OSHA requirements on the opening date of the IFB shall apply, regardless of the date of equipment manufactured.

### Fire Extinguisher:

- a. Shall be ABC type, rechargeable and mounted in accordance with NFPA512.
- b. Unit shall have a UL rating of 10BC.

### Federal Inspection Sticker:

- a. All units shall be delivered with a completed 12 month Federal Highway Safety Inspection sticker properly affixed.

## Contract Addenda

ADDENDUM NUMBER	EFFECTIVE DATE	ADDENDUM DESCRIPTION
1	11/05/2010	These trucks are temporarily unavailable do to the change in engine requirements in order to meet current Tier level mandates.
2	07/14/2011	Trucks are available-price adjustments

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3	04/09/2012	Eprocurement catalog is the only location for pricing information
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